

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):

Lieberman et al.

Serial No.:

10/674,284

For:

Flow Control Element for Use with Leak-Proof Cup Assemblies

Filed:

September 29, 2003

Examiner:

Not Yet Assigned

Art Unit:

3727

Confirmation No.:

3114

Customer No.:

27623

Attorney Docket No.:

460.1882USQ3

Date: May 21, 2004

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

In accordance with applicants' duty of disclosure under 37 C.F.R. §1.56, we are enclosing form PTO-1449 listing information that may be material to the patentability of this application.

Pursuant to the waiving of the requirement of 37 CFR 1.98 (a)(2)(i), copies of the references cited in the enclosed form PTO-1449 are not enclosed.

It is applicants' belief that none of the citations listed in the enclosed form PTO-1449 describe that which is claimed in the present invention.

It should be understood that attention has been called to the citations that have been deemed to be pertinent to the claimed present invention. In concluding what was pertinent, the criteria employed was considered most appropriate in light of the invention shown in the present application. However, the Examiner or others may deem some other criteria to be just as appropriate or more appropriate. Therefore, the Examiner is respectfully urged to review the listed citations and to make the usual careful independent search for other prior art that may be pertinent.

Since this Information Disclosure Statement is being filed prior to the issuance of the first Office Action based on the merits, no petition or fee is required.

Applicants respectfully request favorable consideration and that this application be passed to allowance.

Respectfolly submitted,

Charles N. J. Rugglero

Reg. No. 28,468

Attorney for Applicant(s)

Ohlandt, Greeley, Ruggiero & Perle, L.L.P.

One Landmark Square, 10th Floor

Stamford, CT 06901-2682

(203) 327-4500

CUSTOMER NO.: 27623 Sheet _ 1 of 25 . **FORM PTO-1449** Docket Number (Optional) Application Number OIPE 460.1882USO3 10/674,284 INFORMATION DISCLOSURE CITATION Applicant IN AN APPLICATION Lieberman et al. MAY 2 4 2004 Filing Date Group Art Unit (Use several sheets if necessary) September 29, 2003 3727 E TRADEMAN **U. S. PATENT DOCUMENTS EXAMINER** FILING DATE IF INITIAL **DOCUMENT** DATE NAME **CLASS SUBCLASS APPROPRIATE NUMBER** 4,138 8/1845 Pratt 236,583 1/1881 Hayes 281,608 7/1883 Browne 625,055 5/1899 Painter 721,722 3/1903 Morton 736,694 8/1903 Crane, Jr. 745,477 12/1903 **Bowers** 795,642 7/1905 Nelson 820,987 5/1906 Perotti 858,898 7/1907 McNutt 998,052 7/1911 Treiber 1,098,653 Whisenant 6/1914 1,122,868 **Davis** 12/1914 1,206,661 11/1916 Booth 1,280,942 10/1918 Apple 1,360,893 11/1920 Cowie 1,366,727 1/1921 Gerstner 1,431,762 10/1922 Sellers FOREIGN PATENT DOCUMENTS Translation **DOCUMENT** DATE COUNTRY **CLASS SUBCLASS** YES NO NUMBER OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.) **EXAMINER** DATE CONSIDERED EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Sheet 2 of 25

	1410 27023			1		Srieet _Z		<u>-' </u>
FORM PTO-1	449		Docket Number (Optional) 460.1882USQ3		Application Number 10/674,284	∍r		
INFO	RMATION DISCLOS	SURE CITA	ATION	Applicant		10/0/4,284		
	IN AN APPLICA		111011	Lieberman et al.				
,				Filing Date		Group Art Unit		
	(Use several sheets if	necessary)		September 29, 2003		3727		
		L	J. S. PATEN	T DOCUMENTS		-		
EXAMINER INITIAL	DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS		DATE IF
	1,458,366	6/1923	Smallwood					
	1,477,261	12/1923	Hart					
	1,509,734	9/1924	Langley					
	1,825,553	9/1931	Smith					
	1,840,190	1/1932	Dyck					
	1,859,397	5/1932	Johnson et a	ıl.				
	1,989,714	2/1935	Statham					
	2,012,113	8/1935	Thompson					
	2,023,267	12/1935	Rapt et al.					
	2,063,424	12/1936	Ferguson					
	2,107,442	2/1938	Hughes					
		FOF	REIGN PATE	ENT DOCUMENTS				
							Trans	lation
	DOCUMENT NUMBER	DATE	•	COUNTRY	CLASS	SUBCLASS	YES	NO
	497999	4/1930	Germany					
	66 8247	11/1937	Germany			il a mark		
	21 37 184	2/1973	Germany					
	26 09 310	9/1976	Germany					
	21 28 875	12/1978	Germany					
	OTHER	R DOCUM	MENTS (includ	ing Author, Title, Date, Pertir	nent Pages	s, Etc.)		
				- *				
EXAMINER	· · · · · · · · · · · · · · · · · · ·		<u> </u>	DATE CONSIDERED				
EXAMINER: Initia	Il if citation considered, w	hether or not	citation is in confo	ormance with MPEP §609; D	raw line th	rough		
citation if not in co	nformance and not consi	dered. Includ	le copy of this form	n with next communication to	the applic	cant.		j

Sheet <u>3</u> of <u>25</u>.

FORM PTO-1	1449			Docket Number (Optional) Application Number					
11.50	D1447-04-1			460.1882USQ3		10/674,284			
INFO	RMATION DISCLOS IN AN APPLICA	SURE CITA	ATION	Applicant					
		111011		Lieberman et al.		Group Art Unit	<u></u> .		
	(Use several sheets if	necessary)		September 29, 2003 3727					
		l	I S PATEN	T DOCUMENTS		3121	 :		
EXAMINER	<u> </u>		- GII / II EII	1 BOOOMENTO	<u> </u>		FILING	DATE IF	
INITIAL	DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS		PRIATE	
	2,122,299	6/1938	Sloan						
	2,125,609	8/1938	Goodwin						
	2,162,455	6/1939	Hoge						
	2,174,361	9/1939	Condon						
	2,175,052	10/1939	Bull						
	2,197,766	4/1940	Mueller	,			_		
	2,213,465	9/1940	Gay						
•	2,223,179	11/1940	Lougheed						
	2,236,031	3/1941	Hall				•,		
	2,321,236	6/1943	Parkin						
	2,372,281	3/1945	Jordan						
		FOF	REIGN PATE	NT DOCUMENTS					
							Trans	lation	
	DOCUMENT NUMBER	DATE	(COUNTRY	CLASS	SUBCLASS	YES	NO	
	31 18976 A1	12/1982	Germany						
	39 41 668 A1	4/1991	Germany						
	29 500 819	4/1995	Germany						
	29 706 653	8/1997	Germany					,	
	0232571 A1	8/1987	Europe					-	
	0257 880 A1	3/1988	Europe						
	OTHER	DOCUM	MENTS (includ	ing Author, Title, Date, Perti	nent Pages	, Etc.)			
									
	- -						21.		
									
							· ·		
Ţ									
EXAMINER				DATE CONSIDERED		 			
							_		
				rmance with MPEP §609; D					
citation if not in cor	nformance and not consid	lered. Includ	e copy of this form	1 with next communication to	the applic	ant			

Sheet 4 of 25.

FORM PTO-1	449			Docket Number (Optional)		Application Number	or	
			460.1882USQ3	,	10/674,284	21		
INFO	RMATION DISCLOS IN AN APPLICA	NOITA	Applicant		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
I	III AII AFFLIO	ATION		Lieberman et al.		Group Art Unit		
	(Use several sheets if	necessary)		September 29, 2003	3	3727		
			LS PATEN	T DOCUMENTS		3121		
EXAMINER		T	- CHATEN	1 DOGGINENTO	Γ		511,110	
INITIAL	DOCUMENT NUMBER	DATE		NAME	CLASS	S SUBCLASS		DATE IF OPRIATE
	2,414,697	1/1947	Pettersson					
	2,456,989	12/1948	Polcyn					
	2,519,986	8/1950	Trout					
	2,532,729	12/1950	Millstein					
	2,534,614	12/1950	Michael					
	2,544,464	3/1951	Matthews et	al.				
	2,557,817	6/1951	Dutton				-	
	2,569,139	9/1951	Abelson					
	2,584,359	2/1952	Miles					
	2,608,841	9/1952	Price					 -
	2,622,420	12/1952	Rice					
		FOR	REIGN PATE	NT DOCUMENTS				
							Trans	lation
	DOCUMENT NUMBER	DATE	C	COUNTRY	CLASS	SUBCLASS	YES	NO
	0265125 A1	4/1988	Europe					
	0278 125 A2	8/1988	Europe					
	0326 743 A2	8/1989	Europe					
	0382 631 A1	8/1990	Europe		 -			
	0384394 A2	8/1990	Europe					
	OTHER	DOCUM		ng Author, Title, Date, Pertir	ont Page	- Eta \		
			· · · · · · · · · · · · · · · · · · ·	ng Addior, Tide, Date, Fertil	ient Pages	, etc.)		
1								
					-			
-								
EXAMINER				DATE CONSIDERED				
				L OONGIDEILEU				
XAMINER: Initial	if citation considered, wh	nether or not	citation is in confor	mance with MPEP §609; Dr	aw line thr	Ough		
itation if not in con	formance and not consid	dered. Include	e copy of this form	with next communication to	the annie	ant		
				The second of the	are applica	ant.		

Sheet _ 5 of 25

FORM PTO-	1449			Docket Number (Optional)		Application Number		<u>`</u>
				460.1882USQ3	,	10/674,284	∌r	
INFO	RMATION DISCLO		ATION	Applicant		10/0/4,204		
	IN AN APPLIC	ATION		Lieberman et al.				
	(Lisa several shoots if	, nonnonn ()		Filing Date		Group Art Unit		
	(Use several sheets if	necessary)		September 29, 2003	3	3727		
			J. S. PATEN	T DOCUMENTS				
EXAMINER INITIAL	DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS	FILING APPRO	DATE IF
	2,623,368	12/1952	Olsen					
	2,623,524	12/1952	Clemens					
	2,628,616	2/1953	Ransom					<u> </u>
	2,646,670	7/1953	Spalding et	a1.				
	2,655,920	10/1953	Cronin					
	2,688,326	9/1954	Lerman					
	2,715,980	8/1955	Frick					
	2,736,446	2/1956	Raiche					
	2,740,229	4/1956	Wittwer					
	2,745,568	5/1956	Newton					
	2,753,068	7/1956	Robinson		_			
	2,,,,,,,,,		<u> </u>	NT DOCUMENTO				
		T-Or	CONPAIL	NT DOCUMENTS		-		
	DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	YE\$	NO NO
	0395 380 A2	10/1990	Europe					
	0160336 B1	3/1992	Europe					
	0555 623 A1	8/1993	Europe					
	0634922 B1	6/1998	Europe					
	996.998	12/1951	France					
	OTHER	R DOCUM	MENTS (includi	ing Author, Title, Date, Pertir	nent Page	Etc.)		
				ng ridar, rida, Bate, r erai	ient rages	, Ltc./		
10								
ŀ								
XAMINER				DATE CONSIDERED	- <u>.</u>			
				DATE CONSIDERED				
XAMINER: Initial	l if citation considered, w	hether or not	citation is in confo	rmance with MPEP §609; Di	aw line the	ough		
				with next communication to				
				The state of the s	applic	wiii.		

Sheet 6 of 25

FORM PTO-	1449			Docket Number (Optional)	Application Number		<u>=:</u>
				460.1882USQ3		10/674,284		
INFO	RMATION DISCLOS IN AN APPLICA	SURE CITA ATION	ATION	Applicant Lieberman et al.				
	(Use several sheets if	necessary)		Filing Date		Group Art Unit		
				September 29, 2003	3	3727		
EXAMINER			J. S. PATEN	T DOCUMENTS	т——			
INITIAL	DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS		DATE IF
	2,758,755	8/1956	Schafler					
	2,765,639	10/1956	Bryant					
	2,785,841	3/1957	Westgate					
	2,792,696	5/1957	Stayart					
	2,796,062	6/1957	Tupper		·			
	2,816,548	12/1957	Tupper		· · · · · · · · · · · · · · · · · · ·			-
	2,876,772	3/1959	Witz					
	2,950,033	8/1960	Henchert		···			
	2,989,961	6/1961	Blanchett					
	3,004,566	10/1961	Raimo		<u> </u>			
	3,081,006	3/1963	Land					
· · · · · · · · · · · · · · · · · · ·		FOF	REIGN PATE	NT DOCUMENTS				
							Trans	slation
	DOCUMENT NUMBER	DATE	(COUNTRY	CLASS	SUBCLASS	YES	NO
	1364891	5/1964	France					
	1437341	3/1966	France					
	116872	6/1918	United Kinge	dom				
	460274	1/1937	United Kinge					
	1046518	10/1966	United Kingo	dom				
	OTHER	R DOCUM	/ENTS (includi	ng Author, Title, Date, Pertir	ent Pages	Ftc.)		
					- ugoo			
								
XAMINER				DATE CONSIDERED			7 - 30 -	
-VALUE								
:XAMINER: Initial	if citation considered, wh	nether or not	citation is in confor	rmance with MPEP §609; Dr	aw line thro	ough		
ILAUUH II NOT IN COR	normance and not consid	ered. Includ	e copy of this form	with next communication to	the applica	ant.		

Sheet 7 of 25

FORM PTO-1	1449			Docket Number (Optional)	Application Number		<u></u>
				460.1882USQ3		10/674,284		
INFO	RMATION DISCLOS		ATION	Applicant				
:	IN AN AFFLICA	KIION		Lieberman et al.		0	···	
	(Use several sheets if	necessary)			,	Group Art Unit		
			I Q DATENI	September 29, 2003 T DOCUMENTS		3727		
EXAMINER	<u> </u>	T -	J. S. PATEN	1 DOCUMENTS				
INITIAL	DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS		DATE IF PRIATE
	3,085,710	4/1963	McIlroy		j			
	3,139,064	6/1964	Harle					
	3,140,007	7/1964	Nettleship					
	3,143,429	8/1964	Swanson et	al.				
	3,179,276	4/1965	Safianoff				_	
	3,182,843	5/1965	Foye				-	
	3,241,726	3/1966	Chester					
·	3,273,703	9/1966	Stribley					-
	3,275,180	9/1966	Optner et al.					
	3,302,644	2/1967	Kennedy et a	al.				
	3,310,193	3/1967	Macpherson					
		FOF	REIGN PATE	NT DOCUMENTS		· · · · · · · · · · · · · · · · · · ·		
					-		Trans	lation
	DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	YES	NO
	1229426	4/1969	United Kinge	dom				
	1253398	2/1970	United Kinge	dom				
	1447626	8/1976	United Kingo	dom				
	1474620	5/1977	United Kingo	lom				
	2 015 350 A	9/1979	United Kingo	lom				
	OTHER	DOCUM	/IENTS (includi	ng Author, Title, Date, Perti	nent Pages	, Etc.)		
					· · · · · · · · · · · · · · · · · · ·			
						300		
								=== 10
		·						
Ī								
EXAMINER	····		<u> </u>	DATE CONSIDERED				
				mance with MPEP §609; D				
citation if not in cor	nformance and not consid	ered. Includ	e copy of this form	with next communication to	the applic	ant.		ĺ

Sheet 8 of 25

FORM PTO-1449				Docket Number (Optional) Application Number				
				460.1882USQ3		10/674,284		
INFO	RMATION DISCLOS IN AN APPLICA		ATION	Applicant				
	III AN AIT LIOP	TION		Lieberman et al.		Group Art Unit		
	(Use several sheets if	necessary)		September 29, 2003	,	3727		
		Ĺ	J. S. PATEN	T DOCUMENTS	<u>, </u>	3121		
EXAMINER					l —		FILING	DATE IF
INITIAL	DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS	APPRO	PRIATE
	3,342,379	9/1967	Foley					
	3,355,047	11/1967	De Sole					
	3,360,149	12/1967	Roth					
	3,360,161	12/1967	Smith					
	3,366,261	1/1968	Dewey					
	3,372,832	3/1968	Yeater et al.					
	3,393,817	7/1968	Meierhoefer					
	3,424,157	1/1969	Di Paolo					
	3,435,987	4/1969	Wittwer					
	3,438,257	4/1969	Nichols et al					
	3,438,527	4/1969	Gamblin, Jr.					
		FOF	REIGN PATE	NT DOCUMENTS				
	500	_					Trans	lation
	DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	YES	NO
	2 029 379 A	3/1980	United King	dom				
	2053865 A	2/1981	United King	dom				
	2 098 958 A	12/1982	United King	dom				
	2 131 301 A	6/1984	United Kinge	dom				
	2139903 A	11/1984	United Kinge	dom				
	OTHER	DOCUM	MENTS (includi	ng Author, Title, Date, Pertir	ent Pages	, Etc.)		
			<u> </u>					
EXAMINER		·		DATE CONSIDERED				+
EVAMINED 1	77 . 11 . 11					·		
				rmance with MPEP §609; Dr				
oranon il not in con	normance and not consid	ered. Includ	e copy of this form	with next communication to	the applic	ant.		

Sheet 9 of 25

FORM PTO-1	449			Docket Number (Optional)		Application Number		<u></u>
	•			460.1882USQ3		10/674,284	н	
INFO	RMATION DISCLOS		ATION	Applicant		10/07 1,201		
	IN AN APPLICA	NOIT		Lieberman et al.				
1	(Lisa savoral abouts if			Filing Date		Group Art Unit		
	(Use several sheets if			September 29, 2003	<u> </u>	3727		
		<u>_</u>	. S. PATEN	T DOCUMENTS				
EXAMINER INITIAL	DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS		DATE IF
	3,445,042	5/1969	Elmore et al					
	3,490,488	1/1970	Grist					
	3,511,407	5/1970	Palma					
	3,635,380	1/1972	Fitzgerald					
	3,650,271	3/1972	Pelli		-			
	3,669,323	6/1972	Harker et al.					
	3,672,114	6/1972	Sacks					-
	3,672,547	6/1972	Kozlowski					
3,674,183 7/1972 Venable et				1.				
3,704,803 12/1972 Ponder								
		FOF	REIGN PATE	NT DOCUMENTS				
					· ·		Trans	slation
	DOCUMENT NUMBER	DATE	(COUNTRY	CLASS	SUBCLASS	YES	NO
	2166121 A	4/1986	United King	dom				
	2 169 210 A	7/1986	United King	dom	*			
	2172793A	10/1986	United King	dom				
	2183225 A	6/1987	United King	dom				
	2206106 A	12/1988	United King	dom				
	OTHER	DOCUM	MENTS (includ	ing Author, Title, Date, Perti	nent Pages	s, Etc.)		
								T A
		- 1 - N AV		· · · · · · · · · · · · · · · · · · ·				
ļ								
			·					
ļ								
EXAMINER				DATE CONSIDERED				
EXAMINER: Initia	if citation considered, w	nether or not	citation is in confo	rmance with MPEP §609; D	raw line thr	rough		
				n with next communication to				

CUSTOMER NO.: 27623 Sheet 10 of 25 **FORM PTO-1449** Docket Number (Optional) **Application Number** 460.1882USQ3 10/674,284 INFORMATION DISCLOSURE CITATION Applicant IN AN APPLICATION Lieberman et al.

Filing Date Group Art Unit (Use several sheets if necessary) September 29, 2003 3727 **U. S. PATENT DOCUMENTS EXAMINER** FILING DATE IF INITIAL DOCUMENT DATE NAME **CLASS SUBCLASS APPROPRIATE** NUMBER 12/1972 | Lindstrom 3,704,819 3,718,140 Yamauchi 2/1973 3,739,938 Paz 6/1973 3,785,539 1/1974 Wetterek 3,797,696 3/1974 Dibrell 3,817,418 6/1974 Mastrovito 3,833,154 9/1974 Markowitz 3,854,617 12/1974 **Edwards** 3,874,563 4/1975 Schwartzman 3,878,962 4/1975 Holbrook et al. 3,888,373 6/1975 Gach et al. FOREIGN PATENT DOCUMENTS Translation **DOCUMENT** DATE COUNTRY **CLASS SUBCLASS** YES NO **NUMBER** 2 226 014 A 6/1990 United Kingdom 2238729 5/1991 United Kingdom 2 266 045 A 10/1993 United Kingdom 2 279 130 A 12/1994 United Kingdom 145824 2/1961 Russia OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.) **EXAMINER** DATE CONSIDERED

CUSTOMER NO.: 27623 Sheet __11_ of _25__. **FORM PTO-1449** Docket Number (Optional) **Application Number** 460.1882USO3 10/674,284 INFORMATION DISCLOSURE CITATION Applicant IN AN APPLICATION Lieberman et al. Filing Date Group Art Unit (Use several sheets if necessary) September 29, 2003 3727 **U. S. PATENT DOCUMENTS EXAMINER** FILING DATE IF DOCUMENT INITIAL DATE NAME **CLASS SUBCLASS APPROPRIATE** NUMBER 3,905,512 9/1975 Albert et al. 3,915,331 Chenault 10/1975 3,921,630 **McPhee** 11/1975 3,964,509 6/1976 Daubenberger et al. 3,964,631 6/1976 Albert 4,002,168 1/1977 Petterson 4,005,799 2/1977 Mannaerts 4,051,971 10/1977 Saleri et al. 4,057,177 11/1977 Laauwe 4,083,467 4/1978 Mullins et al. 4,088,166 5/1978 Miller FOREIGN PATENT DOCUMENTS Translation DOCUMENT DATE COUNTRY **CLASS SUBCLASS** YES NO NUMBER WO 93/19718 10/1993 PCT WO 94/04023 **PCT** 3/1994 WO 97/08979 **PCT** 3/1997 OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.) **EXAMINER** DATE CONSIDERED

CUSTOMER NO.: 27623 Sheet <u>12</u> of <u>25</u>. FORM PTO-1449 Docket Number (Optional) **Application Number** 460.1882USQ3 10/674,284 INFORMATION DISCLOSURE CITATION Applicant IN AN APPLICATION Lieberman et al. Filing Date Group Art Unit (Use several sheets if necessary) September 29, 2003 3727 **U. S. PATENT DOCUMENTS EXAMINER** FILING DATE IF INITIAL **DOCUMENT** DATE NAME **CLASS SUBCLASS APPROPRIATE** NUMBER 4,093,096 6/1978 Augros 4,098,434 7/1978 Uhlig 4,121,731 Okerstrum 10/1978 4,133,457 1/1979 Klassen 4,135,513 1/1979 Arisland 4,138,033 2/1979 Payne et al. 4,139,124 2/1979 Ferrante 4,146,157 3/1979 Dixon, Sr. et al. 4,157,144 6/1979 Weiler et al. 4,166,553 9/1979 Fraterrigo 4,171,060 Howard et al. 10/1979 FOREIGN PATENT DOCUMENTS Translation DOCUMENT DATE COUNTRY **CLASS** SUBCLASS YES NO NUMBER OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Sheet 13 of 25

FORM PTO-1	449		Docket Number (Optional)		Application Number	er —		
				460.1882USQ3		10/674,284		
INFO	RMATION DISCLOS		TION	Applicant				
	IN AN APPLICA	ATION		Lieberman et al.				
	(Use several sheets if	noonoom/)		Filing Date		Group Art Unit		
	(Ose several sheets if	necessary)		September 29, 2003	3	3727		
		U	. S. PATEN	T DOCUMENTS				
EXAMINER INITIAL	DOCUMENT NUMBER	DATE		NAME	CLASS	S SUBCLASS		DATE IF
	4,184,604	1/1980	Amberg et a	ıl.				
	4,204,604	5/1980	Morin et al.		-			
	4,238,045	12/1980	D'Andria					
	4,243,156	1/1981	Lobbestael				,	
	4,245,752	1/1981	Prueher					
	4,303,170	12/1981	Panicci					
	4,310,101	1/1982	Sekine					
	4,314,658	2/1982	Laauwe					
	4,340,054	7/1982	Michaels					
	4,350,260	9/1982	Prueher					•
	4,356,935 11/1982 Kamin							
		FOF	REIGN PATE	ENT DOCUMENTS				
	20011147117				·		Trans	lation
	DOCUMENT NUMBER	DATE	(COUNTRY	CLASS	SUBCLASS	YES	NO
							_	
			**					
	OTHER	R DOCUM	IENTS (includ	ing Author, Title, Date, Perti	nent Pages	s, Etc.)		
						l. 	7	
								
EXAMINER				DATE CONSIDERED	·		·	
		·						
				ormance with MPEP §609; D		-		
citation if not in cor	nformance and not consi	dered. Includ	le copy of this form	n with next communication to	o the applic	cant.		

CUSTOMER NO.: 27623 Sheet <u>14</u> of <u>25</u>. FORM PTO-1449 Docket Number (Optional) **Application Number** 460.1882USQ3 10/674,284 INFORMATION DISCLOSURE CITATION Applicant IN AN APPLICATION Lieberman et al. Filing Date Group Art Unit (Use several sheets if necessary) September 29, 2003 3727 **U. S. PATENT DOCUMENTS EXAMINER** FILING DATE IF **INITIAL DOCUMENT** DATE NAME **CLASS SUBCLASS APPROPRIATE** NUMBER 4,361,249 11/1982 Tuneski et al. 4,388,996 6/1983 Panicci 4,401,224 Alonso 8/1983 4,434,810 3/1984 Atkinson 4,441,623 4/1984 Antoniak 4,441,624 4/1984 Sokolowski 4,463,859 8/1984 Greene 4,470,523 9/1984 Spector 4/519,518 5/1985 Wiles et al. 4,519,530 5/1985 Schmidt 4,540,102 9/1985 Wiedmer FOREIGN PATENT DOCUMENTS Translation **DOCUMENT** DATE COUNTRY **CLASS SUBCLASS** YES NO NUMBER OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

DATE CONSIDERED

Sheet _ 15 of 25

FORM PTO-1	449	-		Docket Number (Optional) Application Number				
				460.1882USQ3		10/674,284		
INFO	RMATION DISCLOS		ATION	Applicant				
	IN AN APPLICA	TION		Lieberman et al.				
	()			Filing Date		Group Art Unit		
	(Use several sheets if I	necessary)		September 29, 2003		3727		
		U	. S. PATEN	T DOCUMENTS				
EXAMINER INITIAL	DOCUMENT NUMBER	DATE		NAME	CLAS	S SUBCLASS	FILING D	
	4,545,491	10/1985	Bisgaard et	al.				
	4,565,308	1/1986	Yuhl, Jr.					_
	4,574,970	3/1986	Schwarz					
	4,582,214	4/1986	Dart et al.					
	4,591,063	5/1986	Geiger		-			
	4,596,341	6/1986	Bruffey					
·	4,600,111	7/1986	Brown					
	4,607,755	8/1986	Andreozzi				<u>, -</u>	
_	4,613,050	9/1986	Atkin et al.					
	4,616,768	10/1986	Flier					
	4,620,648	11/1986	Schwartzma	n				
		FOR	REIGN PATE	NT DOCUMENTS				
							Transla	ation
	DOCUMENT NUMBER	DATE	(COUNTRY	CLASS	SUBCLASS	YES	NO
					-			
	OTHER	DOCUN	MENTS (includ	ing Author, Title, Date, Pertir	ent Pages	s, Etc.)		
					•			
						·		
EXAMINER				DATE CONSIDERED				
		, ,						
				rmance with MPEP §609; Di				
citation if not in cor	nformance and not consid	dered. Includ	le copy of this forn	n with next communication to	the applic	cant.		

CUSTOMER NO.: 27623 Sheet <u>16</u> of <u>25</u>. FORM PTO-1449 Docket Number (Optional) **Application Number** 460.1882USQ3 10/674,284 INFORMATION DISCLOSURE CITATION Applicant IN AN APPLICATION Lieberman et al. Filing Date **Group Art Unit** (Use several sheets if necessary) September 29, 2003 3727 **U. S. PATENT DOCUMENTS EXAMINER FILING DATE IF** INITIAL **DOCUMENT** DATE NAME APPROPRIATE **CLASS SUBCLASS** NUMBER 4,638,918 1/1987 Martinez 4,640,424 2/1987 White 4,646,945 3/1987 Steiner et al. 4,660,747 4/1987 Borg et al. 4,685,577 8/1987 Chen 4,711,365 12/1987 Fomby 4,723,668 2/1988 Chen 4,723,688 2/1988 Munoz 4,726,484 2/1988 Lutz 4,728,006 3/1988 Drobish et al. 4,747,519 5/1988 Green et al. FOREIGN PATENT DOCUMENTS Translation DOCUMENT DATE COUNTRY **CLASS SUBCLASS** YES NO NUMBER OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.) **EXAMINER** DATE CONSIDERED

CUSTOMER NO.: 27623 Sheet _ 17 of 25 FORM PTO-1449 Docket Number (Optional) **Application Number** 460.1882USQ3 10/674,284 INFORMATION DISCLOSURE CITATION Applicant IN AN APPLICATION Lieberman et al. Filing Date Group Art Unit (Use several sheets if necessary) September 29, 2003 3727 U. S. PATENT DOCUMENTS **EXAMINER** FILING DATE IF INITIAL DOCUMENT DATE NAME **CLASS SUBCLASS APPROPRIATE** NUMBER 4,749,108 6/1988 Dornsbusch et al. 4,756,440 7/1988 Gartner 4/760,937 8/1988 Evezich 4/779,766 Kinsley 10/1988 4,782,975 11/1988 Coy 4,785,978 11/1988 Kano et al. 4,795,063 1/1989 Sekiguchi et al. 4,796,774 1/1989 Nabinger 4,801,027 1/1989 Hunter 4,815,616 3/1989 Silvenis 4,823,967 4/1989 Thompson FOREIGN PATENT DOCUMENTS Translation DOCUMENT DATE COUNTRY **CLASS SUBCLASS** YES NO NUMBER OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER DATE CONSIDERED

CUSTOMER NO.: 27623 Sheet <u>18</u> of <u>25</u>. **FORM PTO-1449** Docket Number (Optional) **Application Number** 460.1882USQ3 10/674,284 INFORMATION DISCLOSURE CITATION Applicant IN AN APPLICATION Lieberman et al. Filing Date Group Art Unit (Use several sheets if necessary) September 29, 2003 3727 **U. S. PATENT DOCUMENTS EXAMINER** FILING DATE IF INITIAL DOCUMENT DATE NAME CLASS **SUBCLASS APPROPRIATE** NUMBER 4,828,126 5/1989 Vincinguerra 4,828,141 5/1989 Coy 4,836,404 6/1989 Coy 4,850,496 7/1989 Rudell et al. 4,865,207 9/1989 Joyner et al. 4,909,416 3/1990 Evezich 4,921,112 5/1990 Juhlin et al. 4,928,861 5/1990 Schiemann 4,941,598 7/1990 Lambelet, Jr. et al. 4,946,062 8/1990 Coy 4,953,737 9/1990 Meyers FOREIGN PATENT DOCUMENTS Translation DOCUMENT DATE COUNTRY **CLASS** SUBCLASS YES NO NUMBER OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.) **EXAMINER** DATE CONSIDERED

CUSTOMER NO.: 27623 Sheet 19 of 25. FGRM PTO-1449 Application Number **Docket Number (Optional)**

INFO	INFORMATION DISCLOSURE CITATION			400.1882USQ3	1	0/6/4,284		
IINFOr	IN AN APPLICA		ATION	Applicant Lieberman et al.	<u></u>			
				Filing Date	G	Group Art Unit		
	(Use several sheets if i	necessary)		September 29, 2003	3	3727		
		U	S. PATEN	T DOCUMENTS				
EXAMINER INITIAL	DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS		DATE IF
	4,961,510	10/1990	Dvoracek					
	4,987,740	1/1991	Coleman					
	4,991,745	2/1991	Brown					
	4,993,568		Morifuji et a	al.				
	4,993,569	2/1991	Osip et al.					
	5,005,737	4/1991	Rohr					
	5,033,647	7/1991	Smith et al.					
	5,033,655	7/1991	Brown					
	5,035,340	7/1991	Timmons			1		
	5,040,756	8/1991	Cava					
	5,050,758	9/1991	Freeman et a	al.				
	5,060,811	10/1991	Fox					
		FOR	EIGN PATE	NT DOCUMENTS		<u></u>		
	7						Trans	slation
	DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	YES	NO
	OTHER	DOCUM	1ENTS (includi	ing Author, Title, Date, Pertin	ent Pages, [Etc.)		
								
XAMINER		* '		DATE CONSIDERED				
EYAMINED: Initial								
YAMINED Initial	if citation consideredd		-14-41. 1 1					

CUSTOMER NO.: 27623 Sheet _20_ of _25_. FORM PTO-1449 Docket Number (Optional) **Application Number** 460.1882USQ3 10/674,284 INFORMATION DISCLOSURE CITATION Applicant IN AN APPLICATION Lieberman et al. Filing Date **Group Art Unit** (Use several sheets if necessary) September 29, 2003 3727 **U. S. PATENT DOCUMENTS EXAMINER** FILING DATE IF INITIAL DOCUMENT DATE NAME CLASS **SUBCLASS APPROPRIATE** NUMBER 5,071,017 Stull 12/1991 5,072,842 White 12/1991 5,079,013 1/1992 Belanger 5,099,998 3/1992 Curzon et al. 5,100,930 3/1992 Fukui et al. 5,101,991 4/1992 Morifuji et al. 5,105,976 4/1992 Patterson 5,115,950 5/1992 Rohr 5,140,053 8/1992 Yamamoto et al. 5,147,066 9/1992 Snider 5,150,800 9/1992 Sarter et al. FOREIGN PATENT DOCUMENTS Translation DOCUMENT DATE COUNTRY **CLASS SUBCLASS** YES NO NUMBER OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

DATE CONSIDERED EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609; Draw line through

citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

CUSTOMER NO.: 27623 Sheet 21 of 25. **FORM PTO-1449** Docket Number (Optional) **Application Number** 460.1882USQ3 10/674,284 INFORMATION DISCLOSURE CITATION Applicant IN AN APPLICATION Lieberman et al. Filing Date Group Art Unit (Use several sheets if necessary) September 29, 2003 3727 U. S. PATENT DOCUMENTS **EXAMINER** FILING DATE IF INITIAL DOCUMENT DATE NAME **CLASS SUBCLASS APPROPRIATE** NUMBER 5,186,347 2/1993 Freeman et al. 220 714 5,203,470 4/1993 Brown 5,211,298 Bloch 5/1993 5,213,236 5/1993 Brown et al. 5,271,531 Rohr 5,275,312 1/1994 Labruzzo 5,295,597 3/1994 Green 5,339,995 8/1994 Brown et al. 5,346,107 9/1994 Bouix et al. 5,363,983 11/1994 | Proshan 5,366,109 11/1994 Proshan 5,377,877 1/1995 Brown et al. FOREIGN PATENT DOCUMENTS Translation DOCUMENT DATE COUNTRY CLASS SUBCLASS YES NO NUMBER OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609; Draw line through

DATE CONSIDERED

EXAMINER

citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

CUSTOMER NO.: 27623 Sheet 22 of 25. **FORM PTO-1449** Docket Number (Optional) **Application Number** 460.1882USQ3 10/674,284 INFORMATION DISCLOSURE CITATION Applicant IN AN APPLICATION Lieberman et al. Filing Date Group Art Unit (Use several sheets if necessary) September 29, 2003 3727 U. S. PATENT DOCUMENTS **EXAMINER** FILING DATE IF INITIAL **DOCUMENT** DATE NAME **CLASS SUBCLASS APPROPRIATE** NUMBER 5,431,290 7/1995 Vinciguerra 5,433,338 7/1995 Proshan 5,433,353 7/1995 Flinn 5,439,125 8/1995 Bloch 5,439,143 8/1995 Brown et al. 5,472,122 12/1995 Appleby 5,474,028 12/1995 Larson et al. 5,477,980 12/1995 Chaffin 5,477,994 12/1995 Feer et al. 5,490,144 2/1996 Tran et al. 5,542,670 8/1996 Morano FOREIGN PATENT DOCUMENTS Translation DOCUMENT DATE COUNTRY **CLASS** SUBCLASS YES NO NUMBER OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

DATE CONSIDERED

CUSTOMER NO.: 27623 Sheet 23 of 25. FORM PTO-1449 Docket Number (Optional) **Application Number** 460.1882USQ3 10/674,284 **INFORMATION DISCLOSURE CITATION** Applicant IN AN APPLICATION Lieberman et al. Filing Date Group Art Unit (Use several sheets if necessary) September 29, 2003 3727 U. S. PATENT DOCUMENTS **EXAMINER** FILING DATE IF INITIAL **DOCUMENT** DATE NAME **CLASS SUBCLASS APPROPRIATE** NUMBER 5,553,726 Park 9/1996 5,607,073 3/1997 Forrer 5,615,809 4/1997 Feer et al. 5,676,289 Gross et al. 10/1997 5,680,969 10/1997 Gross 5,702,025 Di Gregorio 12/1997 5,706,973 1/1998 Robbins III, et al. 220 714 5,890,619 Belanger 5,890,620 4/1999 Belcastro 5,890,621 4/1999 Bachman et al. 5,988,425 Yehl et al. 11/1999 220 714 6,050,445 4/2000 Manganiello 220 714 FOREIGN PATENT DOCUMENTS **Translation DOCUMENT** DATE COUNTRY **CLASS SUBCLASS** YES NO **NUMBER** OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER DATE CONSIDERED

CUSTOMER NO.: 27623 Sheet <u>24</u> of <u>25</u>. FORM PTO-1449 Docket Number (Optional) Application Number 460.1882USO3 10/674,284 INFORMATION DISCLOSURE CITATION Applicant IN AN APPLICATION Lieberman et al. Filing Date Group Art Unit (Use several sheets if necessary) September 29, 2003 3727 U. S. PATENT DOCUMENTS **EXAMINER** FILING DATE IF INITIAL DOCUMENT DATE NAME CLASS **SUBCLASS APPROPRIATE** NUMBER 6,102,245 8/2000 Haberman 220 714 6,116,457 9/2000 Haberman 220 714 6,422,415 Manganiello 6,568,557 Fusco D216,730 3/1970 Carslaw D233,972 12/1974 Juhlin D247,541 3/1978 Barger D247,840 5/1978 Dixson D259,231 5/1981 Kozlow, Sr. D279,752 7/1985 Jagger D291,659 9/1987 Powell FOREIGN PATENT DOCUMENTS Translation DOCUMENT DATE COUNTRY **CLASS SUBCLASS** YES NO NUMBER OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

CUSTOMER NO.: 27623 Sheet 25 of 25. **FORM PTO-1449** Docket Number (Optional) **Application Number** 460.1882USQ3 10/674,284 INFORMATION DISCLOSURE CITATION Applicant IN AN APPLICATION Lieberman et al. Filing Date Group Art Unit (Use several sheets if necessary) September 29, 2003 3727 **U. S. PATENT DOCUMENTS EXAMINER FILING DATE IF** INITIAL **DOCUMENT** DATE NAME **CLASS SUBCLASS APPROPRIATE** NUMBER D298,717 11/1988 Nichols et al. D359,417 6/1995 Chen RE37,016 1/2001 Morano 220 714 FOREIGN PATENT DOCUMENTS Translation **DOCUMENT** DATE COUNTRY SUBCLASS **CLASS** YES NO NUMBER OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.